1. Record Nr. UNINA9910254592503321 Autore Dassonville Patrice F Titolo The Invention of Time and Space [[electronic resource]]: Origins, Definitions, Nature, Properties / / by Patrice F. Dassonville Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2017 **ISBN** 3-319-46040-4 Edizione [1st ed. 2017.] 1 online resource (XVII, 176 p. 46 illus., 3 illus. in color.) Descrizione fisica 530.01 Disciplina Soggetti **Physics** Philosophy and science Anthropology Ontology History, Ancient History and Philosophical Foundations of Physics Philosophy of Science **Ancient History** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references at the end of each chapters. Nota di contenuto Introduction -- The Main Issues.- The Failure of Dialectics -- Reality, Concepts, and Models.- Origins of Time and Space.- Definitions and Nature of Time.- Definitions and Nature of Space.- Mathematical Properties of Time and Space.- Historical Overview of Time and Space. - First Consequences of Non-Existence -- Conclusion.- Specific Glossary. Sommario/riassunto This investigation of time and space is motivated by gaps in our current understanding; by the lack of definitions, by our failure to appreciate the nature of these entities, by our inability to pin down their properties. The author's approach is based on two key ideas: The first idea is to seek the geo-historical origins of time and space concepts. A thorough investigation of a diversified archaeological corpus, allows him to draft coherent definitions; it furthermore gives clues as to

whether time and space were discovered or invented. The second idea is to define the units before trying to define space and time. The results

presented here are unexpected: Time and space were not discovered in nature, but they were invented; time is not a phenomenon and space has no materiality; they are only concepts. This runs contrary to the opinion of most scientific and the philosophical authorities, although one would seek in vain for a theoretical validation of the conventional position. This book will provide much food for thought for philosophers and scientists, as well as interested general readers.